Maryland Historical Trust

Maryland Inventory of Historic Properties number: 130-2+91	
Name: MD146 OUCL OVERSHOT RUN	

The bridge referenced herein was inventoried by the Maryland State Highway Administration as part of the Historic Bridge Inventory, and SHA provided the Trust with eligibility determinations in February 2001. The Trust accepted the Historic Bridge Inventory on April 3, 2001. The bridge received the following determination of eligibility.

MARYLAND HISTORICAL TRUST Eligibility Recommended Eligibility Not Recommended X		
Criteria:AB X_CD Consid	erations:AB	_CDEFGNone
Comments:		
Reviewer, OPS:_Anne E. Bruder		Date:3 April 2001
Reviewer, NR Program:Peter E. Kurtze	and the state of t	Date:3 April 2001

China de la companya della companya della companya de la companya della companya

MHT No. <u>BA-2791</u>

MARYLAND INVENTORY OF HISTORIC BRIDGES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION/ MARYLAND HISTORICAL TRUST

SHA Bridge No. 3306 Bridge name MD 146 over Overshot Run
LOCATION: Street/Road name and number MD 146 (Jarrettsville Pike)
City/town Sunnybrook Vicinity X
County Baltimore
This bridge projects over: Road Railway Water X Land
Ownership: State X County Municipal Other
HISTORIC STATUS: Is the bridge located within a designated historic district? Yes NoX National Register-listed district National Register-determined-eligible district Locally-designated district Other
Name of district
BRIDGE TYPE: Timber Bridge: Beam Bridge Truss -Covered Trestle Timber-And-Concrete
Stone Arch Bridge
Metal Truss Bridge
Movable Bridge: Swing Bascule Single Leaf Bascule Multiple Leaf Vertical Lift Retractile Pontoon
Metal Girder X : Rolled Girder: Rolled Girder Concrete EncasedX : Plate Girder: Plate Girder Concrete Encased
Metal Suspension
Metal Arch
Metal Cantilever
Concrete: Concrete Arch Concrete Slab Concrete Beam Rigid Frame Other Type Name

DESCRIPTION			
DESCRIPTION: Setting: Urban	Small town	Rural	X
Describe Setting:			
146 runs north-south and	O 146 (Jarrettsville Pike) over Overshot Run flows east-west ded by farmland with some co	. The bridge is loc	ated in the vicinity of
Describe Superstructure a	ıd Substructure:		
portions of the abutments roadway width of 25 feet. girders which support a con x 25 inches and are spaced placed between the bottom roadway is carried on the wearing surface. The road	2-lane, metal girder bridge. The were replaced in 1990. The The out-to-out width is 27 feet crete deck and metal guard rain 2 feet, 6 inches apart. They afflanges of the girders, acting a girders. The concrete deck is always approaches are tangent, to (2) concrete abutments. The unavailable.	structure is 27 feet t. The superstructure ds. The girders are a care encased in concest forms for the concest 10 inches thick and sloping down town	long and has a clear re consists of nine (9) approximately 8 inches rete with timber infill rete encasement. The d it has a bituminous ards the bridge. The
	ection report, this structure is e concrete abutments have me		
Discuss Major Alterations			
	removed and replaced with gue repair of both concrete abu		nown date. Inspection
HISTORY:			
WHY was the bridge built?			
The bridge was constructed increased load capacity.	in response to the need for n	nore efficient transp	oortation network and
WHO was the designer?			
Unknown			
WHO was the builder?			

Unknown

WHY was the bridge altered?

The bridge was altered to correct functional or structural deficiencies.

Was this bridge built as part of an organized bridge-building campaign?

There is no evidence that the bridge was part of an organized bridge building campaign.

SURVEYOR/HISTORIAN ANALYSIS:

This bridge may have Nationa	ıl Register significanc	e for its association with:
A - Events	B- Person	
C- Engineering/archite	ectural character	

The bridge does not have National Register Significance.

Was the bridge constructed in response to significant events in Maryland or local history?

Metal girder bridges were most likely introduced and first popularized in Maryland by the state's major railroads of the nineteenth century including the Baltimore and Susquehanna, its successor the Northern Central, and the Baltimore and Ohio Railroad. Bridge engineering historians have documented the fact that James Milholland (or Mulholland) erected the earliest plate girder span in the United States on the Baltimore and Susquehanna Railroad in 1846 at Bolton Station, near present-day Mount Royal Station. The sides (web) and bottom flange of Milholland's 54-foot-long span were wholly of wrought iron and included a top flange reinforced with a 12x12-inch timber. Plates employed in the bridge were 6 feet deep and 38 inches wide, giving the entire bridge a total weight of some 14 tons. Milholland's pioneering plate girder cost \$2,200 (Tyrrell 1911:195). By December 31, 1861, the Northern Central Railroad, which succeeded the Baltimore and Susquehanna, maintained an operating inventory in Marylandof 50 or more bridges described simply as "girder" spans, in addition to a number of Howe trusses. Most of these were probably iron girder bridges; the longest were the 117-foot double-span bridge over Jones Falls and the 106-foot double-span girder bridge at Pierce's Mill (Gunnarson 1990:179-180).

As in the nation, girder bridge technology in Maryland was quickly adapted to cope with the increasingly heavy traffic demands of the twentieth century caused by automobile and truck traffic. The 1899 Maryland Geological Survey report on highways noted that "there are comparatively few I-beam bridges, one of the cheapest and best forms for spans less than 25 or 30 feet" (Johnson 1899:206). Interestingly, the report also urged construction of a composite metal, brick, and concrete bridge, noting that "no method of construction is more durable than the combination of masonry and I-beams, between which are transverse arches of brick, the whole covered with concrete, over which is laid the roadway" (Johnson 1899:206). Whether any such bridges (transitional structures between I-beams and reinforced concrete spans) were built is unknown.

Official state and county highway reports—issued between 1900 and the early 1920s through the Highway Division of the Maryland Geological Survey and its successor, the State Roads Commission—generally do not reference or describe girder construction. An analysis of the current statewide listing of county and municipal bridges (a listing maintained by the State Highway Administration) reveals that 48 county bridges, out of the total of 141 approximately dated to "1900" by county engineers, were listed as steel girder, steel stringer, or variants of such terms. (It should be noted that the "1900" date is often given when no exact date is pinpointed for a bridge that is clearly old). A grand total of 200 bridges (including "steel culverts"), out of 550 bridges dated on

the county list between 1901 and 1930, were described as steel beam, steel girder, or steel stringer and girder varieties. The total suggests that among the various highway bridge types built in the early twentieth century metal girder bridges in Maryland between 1900 and 1930 were second in popularity only to reinforced concrete bridges. However, these numbers must be interpreted with caution, as they do not necessarily include all county and municipal bridges.

When the bridge was built and/or given a major alteration, did it have a significant impact on the growth and development of the area?

There is no evidence that the construction of the bridge had a significant impact on the growth and development of this area.

Is the bridge located in an area which may be eligible for historic designation and would the bridge add to or detract from the historic/visual character of the potential district?

The bridge is located in an area which does not appear to be eligible for historic designation.

Is the bridge a significant example of its type?

A significant example of a metal girder bridge should possess character-defining elements of its type, and be readily recognizable as an historic structure from the perspective of the traveler. The integrity of distinctive features visible from the roadway approach, including parapet walls or railings, is important in structures which are common examples of their type. In addition, the structure must be in excellent condition. The original parapets on Bridge 3306 have been replaced with guard rails. Because of this, its integrity of distinctive features visible from the roadway has been altered, making the structure an undistinguished example of a metal girder bridge.

Does the bridge retain integrity of important elements described in Context Addendum?

The bridge retains the character-defining elements of its type, as defined by the Statewide Historic Bridge Context including the original concrete encased, longitudinal girders and concrete abutments. However, distinctive features of the bridge as viewed from the roadway, such as the original parapets, have been altered.

Is the bridge a significant example of the work of a manufacturer, designer, and/or engineer?

The bridge is not a significant example of the work of a manufacturer, designer, and/or engineer.

Should the bridge be given further study before an evaluation of its significance is made?

No further study of this bridge is required to evaluate its significance.

Publishing Co., Sykesville, Maryland.

BIBLIOGRAPHY:		
County inspection/bridge filesOther (list):	SHA inspection/bridge files	X
Gunnarson, Robert 1990 The Story of the Northern Central Railway, Fr	rom Baltimore to Lake Ontario.	Greenberg

BA-2791

Johnson, Arthur Newhall

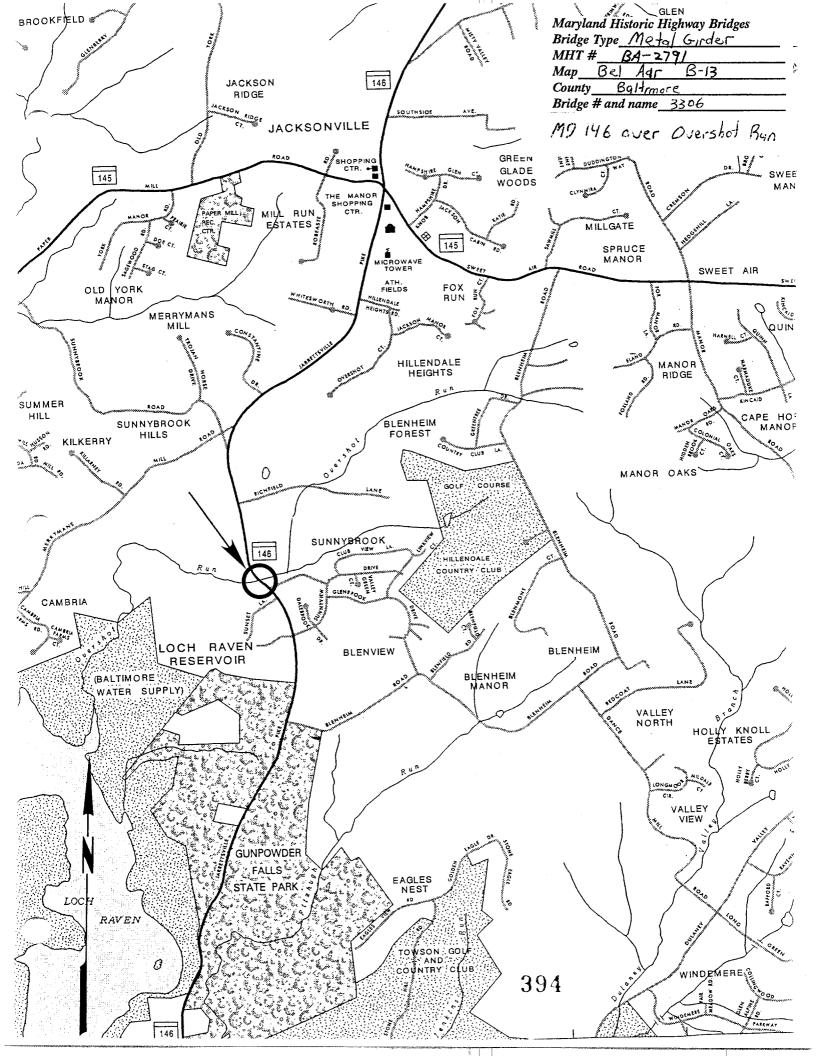
The Present Condition of Maryland Highways. In Report on the Highways of Maryland. Maryland Geological Survey, The Johns Hopkins University Press, Baltimore.

Tyrrell, Henry G.

1911 History of Bridge Engineering. Published by author, Chicago.

SURVEYOR:

Date bridge recorded	2/27/97	
Name of surveyor <u>Carolin</u>	e Hall/Eric Griffitts	
Organization/Address P.A.	C. Spero & Co., 40 W. Chesapeake Avenue, Baltim	ore, MD 21204
Phone number (410) 296-16		





1 BA 2791 2. MD 146 Over Overshot Run 3. Balto Co MD 4 Erie Griffitts 5397 6. MD SHPO 7. W elevation 8/01/6



1: BA-2791 2. MD 146 Over Overshot Run 3. Ba Ho. Co MD 4 Eric Griffetts 5. 3 97 6. MD SHPD 7. Napproach 8.2016



1. BA- 2791 2. MD 1+6 over Over Shot Pur 3. Balto Co MD 4. Eric Griffetts 5.397 6. MDSHPO 7.5 approach 8.3016



1. BA-279 2. MD 146 over Evershot Run 3 Batto Co MD 4. Eric Griffetts 5.3 97 6. MDSHPD 7. east elevation of bridge 8.4066



1.BA -2191 2. MD 146 Over Overshot Run 3, Balto Co. MD 4. Erie Guffitts 5, 3/97 6. MD SHPD 7. exiting wings wall + repaired about 8.50 6



1, BA-2791 2. MD 146 over Overshot Rum 3, Bato Co MD 4. Erie Griffitts 5.397 6 MD SHPO 7. girders & planking under bridge 8.60/6